



US 20200112195A1

(19) **United States**(12) **Patent Application Publication**
Kasar et al.(10) **Pub. No.: US 2020/0112195 A1**(43) **Pub. Date: Apr. 9, 2020**(54) **INDUCTIVE CHARGING BETWEEN
ELECTRONIC DEVICES****Publication Classification**(71) Applicant: **Apple Inc.**, Cupertino, CA (US)(72) Inventors: **Darshan R. Kasar**, San Francisco, CA
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Jose, CA (US)(73) Assignee: **Apple Inc.**, Cupertino, CA (US)(21) Appl. No.: **16/705,196**(22) Filed: **Dec. 5, 2019****Related U.S. Application Data**(63) Continuation of application No. 15/925,410, filed on
Mar. 19, 2018, now Pat. No. 10,505,386, which is a
continuation of application No. 14/731,280, filed on
Jun. 4, 2015, now Pat. No. 10,404,089.(51) **Int. Cl.****H02J 7/02** (2006.01)**G06F 1/26** (2006.01)**H01F 38/14** (2006.01)**H02J 7/00** (2006.01)(52) **U.S. Cl.**CPC **H02J 7/025** (2013.01); **H02J 7/0042**(2013.01); **H01F 38/14** (2013.01); **G06F****1/266** (2013.01)

(57)

ABSTRACT

An electronic device and methods for inductively charging an electronic device using another external electronic device. The electronic device may include an enclosure, a battery positioned within the enclosure, and an inductive coil coupled to the battery. The inductive coil may have two or more operational modes, including a power receiving operational mode for wirelessly receiving power and a power transmitting operational mode for wirelessly transmitting power. The electronic device may also have a controller coupled to the inductive coil for selecting one of the operational modes.

